



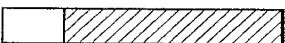
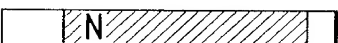

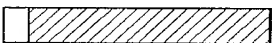

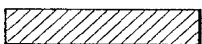

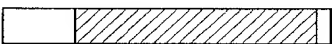
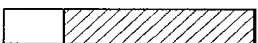

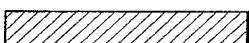
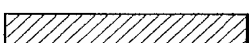
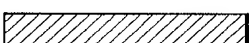
<u>Binding Domain Hybrid</u>		<u>Activation Domain Hybrid</u>
Fas		Sentrin
	wt (191–319AA)	++
	Δ 15 (191–304AA)	++
	Δ 23 (191–296AA)	–
	(V238N)	–
TNFR1		
	wt (326–426AA)	++
	Δ 14 (326–412AA)	++
	Δ 20 (326–406AA)	–
CD40		
	(216–277AA)	–
FADD/MORT1		
	(1–208AA)	–
<u>Activation Domain Hybrid</u>		<u>Binding Domain Hybrid</u>
Sentrin		Fas (191–319AA)
	(1–101AA)	++
	(1–70AA)	–
	(1–23AA)	–
	(24–97AA)	–
Ubiquitin	 (1–76AA)	–
Nedd8	 (1–76AA)	–

FIG. 1A

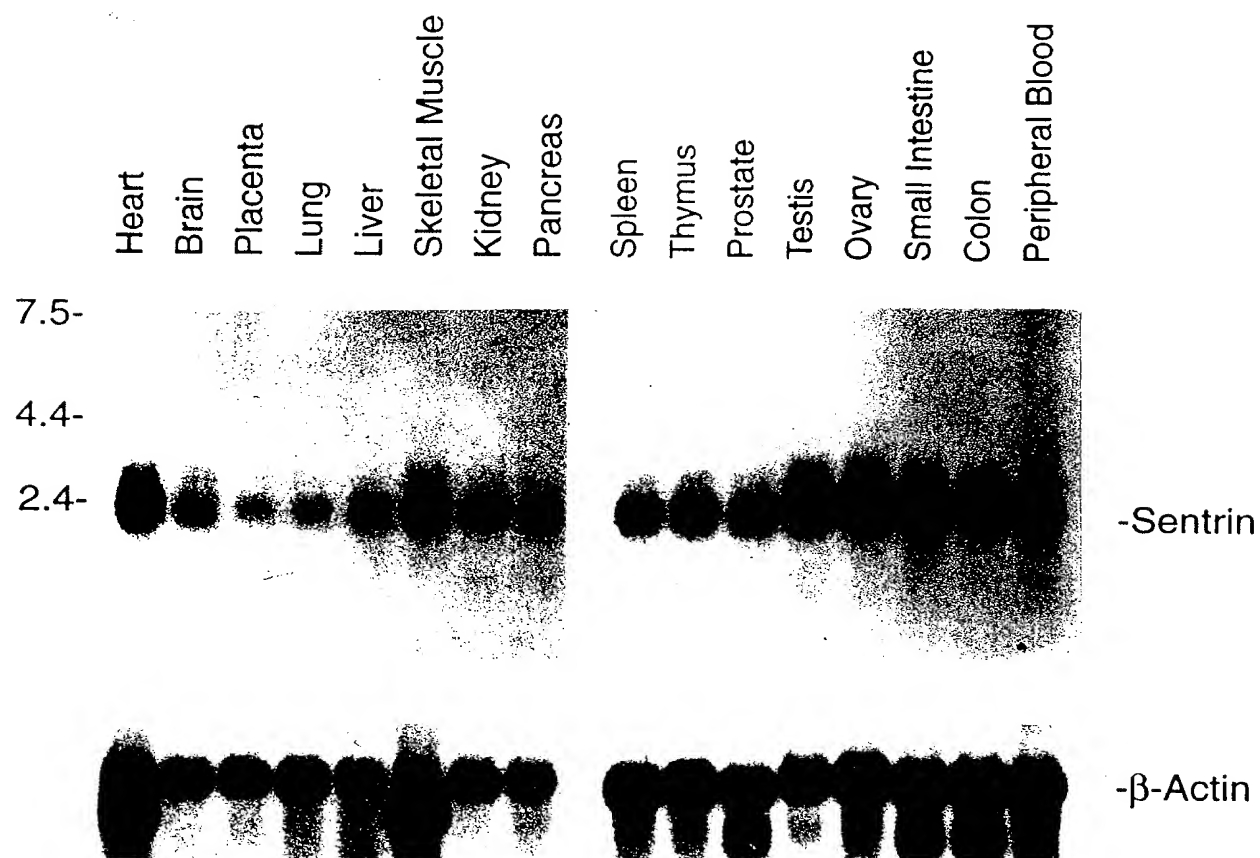


FIG. 1B

CGAGGCGTAGCGGAAGTTACTGCAGCCGCGGTGTTGTGCTGT
 CGGGAAGGGGAAGGATTTGTAAACCCCGGAGCGAGGTTCTGC
 TTACCCGAGGCCGCTGCTGTGCGGAGACCCCGGGTGAAGCC
 ACCGTCATCATGTCTGACCAGGAGGCCAAAACCTTCAACTGAG
 M S D Q E A K P S T E
 GACTTGGGGGATAAGAAGCAAGGTGAATATATTAAGTCAAA
 D L G D K K E G E Y I K L K
 GTCATTGGACAGGATAGCAGTGAGATTCACTTCAAAGTGAAA
 V I G Q D S S E I H F K V K
 ATGACAACACATCTCAAGAACTCAAAGAATCATACTGTCAA
 M T T H L K K L K E S Y C Q
 AGACAGGGTGTTCCAATGAATTCCTCAGGTTTCTCTTTGAG
 R Q G V P M N S L R F L F E
 GGTCAGAGAATTGCTGATAATCATACTCCAAAAGAACTGGGA
 G Q R I A D N H T P L E L G
 ATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACG
 M E E E D V I E V Y Q E Q T
 GGGGGTCATTCAACAGTTTAGATATTCTTTTTTATTTTTTTTC
 G G H S T V *101
 TTTTCCCTCAATCCTTTTTTTATTTTTTAAAAATAGTTCTTTTC
 TAATGTGGTGTTCAAACCGGAATTGAAAACCTGGCACCCCATC
 TCTTTGAAACATCTGGTAATTTGAATTCTAGTGCTCATTATT
 CATTATTGTTTGTTCATTGTGCTGATTTTTTGGTGATCAAG
 CCTCAGTCCCCTTCATATTACCCTCTCCTTTTTTAAAAATTAC
 GTGTGCACAGAGAGGTCACCTTTTTTCAGGACATTGCATTTTC
 AGGCTTGTGGTGATAAATAAGATCGACCAATGCAAGTGTTCA
 TAATGACTTTCCAATTGGCCCTGATGTTCTAGCATGTGATTA
 CTTCACTCCTGGACTGTGACTTTTCAGTGGGAGATGGAAGTTT
 TTCAGAGAACTGAACTGTGGAAAAATGACCTTTCCTTAACTT
 GAAGCTACTTTTAAAATTGAGAGTAATGACTAACTCCAAAGA
 TGGCTTCACTGAAGAAAAGGCATTTTAAAGATTTTTTAAAAAT
 CTTGTCAGAAGATCCCAGAAAAGTTCTAATTTTCATTAGCAA

FIG. 2A-1

TTAATAAAGCTATACATGCAGAAATGAATACAACAGAACACT
GCTCTTTTTGATTTTATTTGTACTTTTTGGCCTGGGATATGG
GTTTTAAATGGACATTGTCTGTACCAGCTTCATTAAAATAAA
CAATATTTGTCAAAAATCGTACTAATGCTTATTTTATTTTAA
TTGTATAGAAAGAAAAAAATGCCTAAAATAAGGTTTTCTTGC
ATAAATACTGGAAATTGCACATGGTACAAAAAAAAAAATGCCT
AAATTACTGTACAGGGATGATGTTAATGACTTTGGAGCACTG
AAAGTTACTGAAGTGCCTTCTGAATCAAGGATTTAATTAAGG
CCACAATACCTTTTTTAATACTCAGTGTTCTGTTTTTTTTTAAA
AACTTGATATTCCCGTATGGTGCATATTTGATACAGGTACCC
AATCATGTTGGATAAATGGGCATGCCAGCC

FIG. 2A-2

Sentrin	MSD	QEAKPST	EDLGDKKEGE	YIKLKVIGQD	SSEIHFKVKM	40
SMT3	MSDSEVNQEAKPEV	KP-EVKPETH		-INLKV-SDG	SSEIFFKIKK	
Ubiquitin				MQIFVKTLT	GKTITLEVEP	
Nedd-8				MLIKVKTLT	GKEIEIDIEP	
				41	60	
Sentrin				TTHLKKLKES	YCQRQGVP MN	
SMT3				TTPLRRLMEA	FAKRQ GKEMD	
Ubiquitin				SDTIENVKAK	IQDKEGIPPD	
Nedd-8				TDKVERIKER	VEEKEGIPPQ	
BAG-1				---VQDLAQL	VEEATGVPLP	
				61	80	
Sentrin				SLRFLFEGQR	IADNHTPKEL	
SMT3				SLRFLYDGIT	IQADQTPEDL	
Ubiquitin				QORLI FAGKQ	LEDGRTLSDY	
Nedd-8				QORLI YSGKQ	MNDEKTAADY	
BAG-1				FQKLIFKGKS	LKE-----	
				81	100	
Sentrin				GMEEDVIEV	YQEQTGGHST V	
SMT3				DMEDNDIIEA	HREQIGGATY	
Ubiquitin				NIQKESTLHL	VLRLRG	
Nedd-8				KILGGSVLHL	VLAIRGG	

FIG. 2B

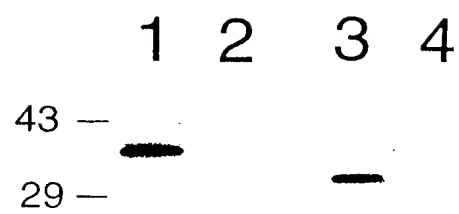


FIG.3

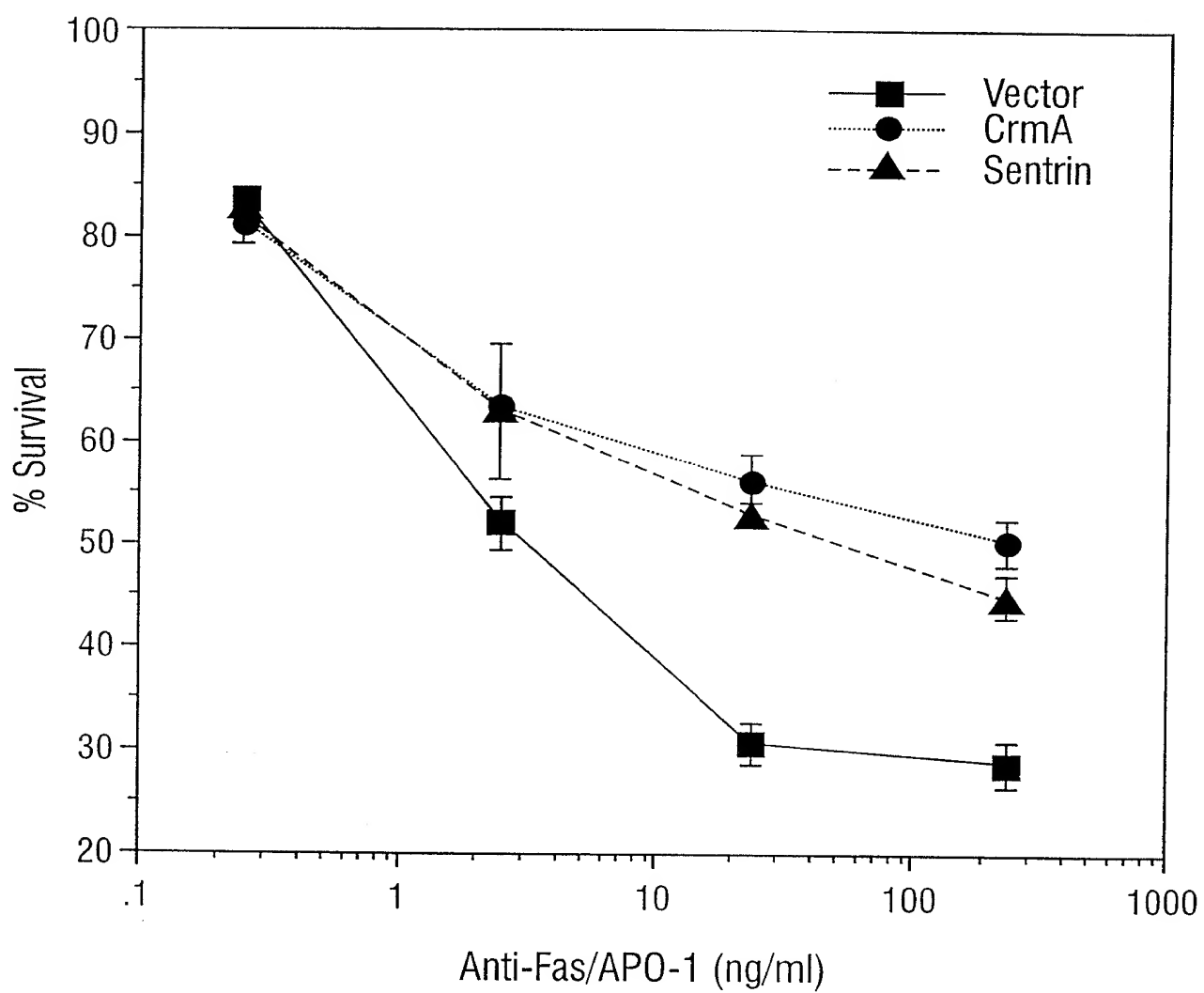


FIG. 4A

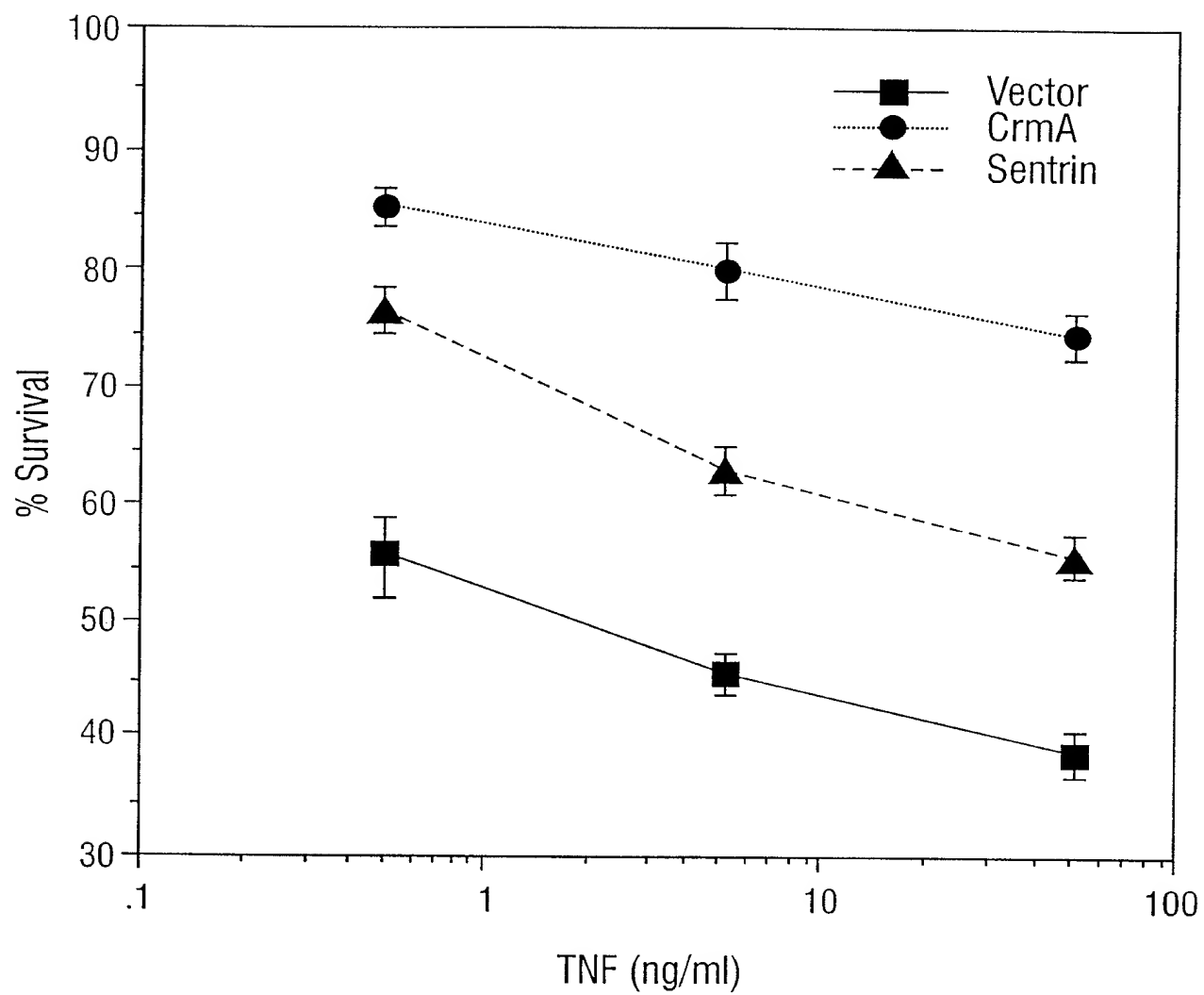


FIG. 4B

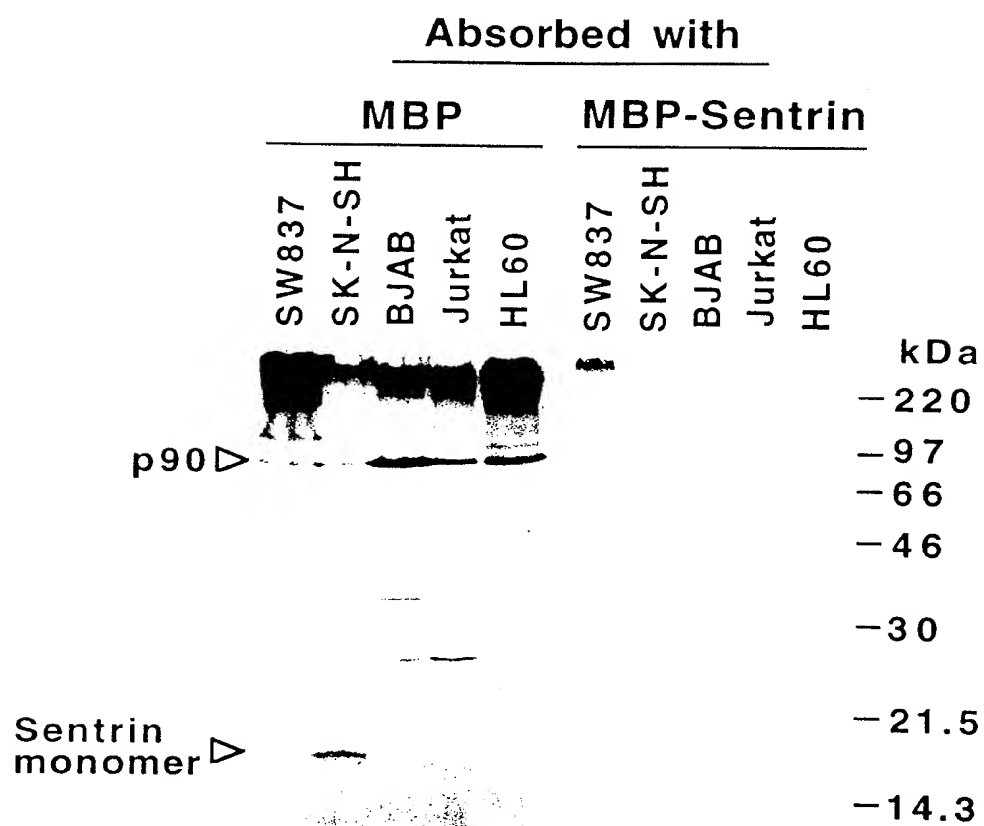
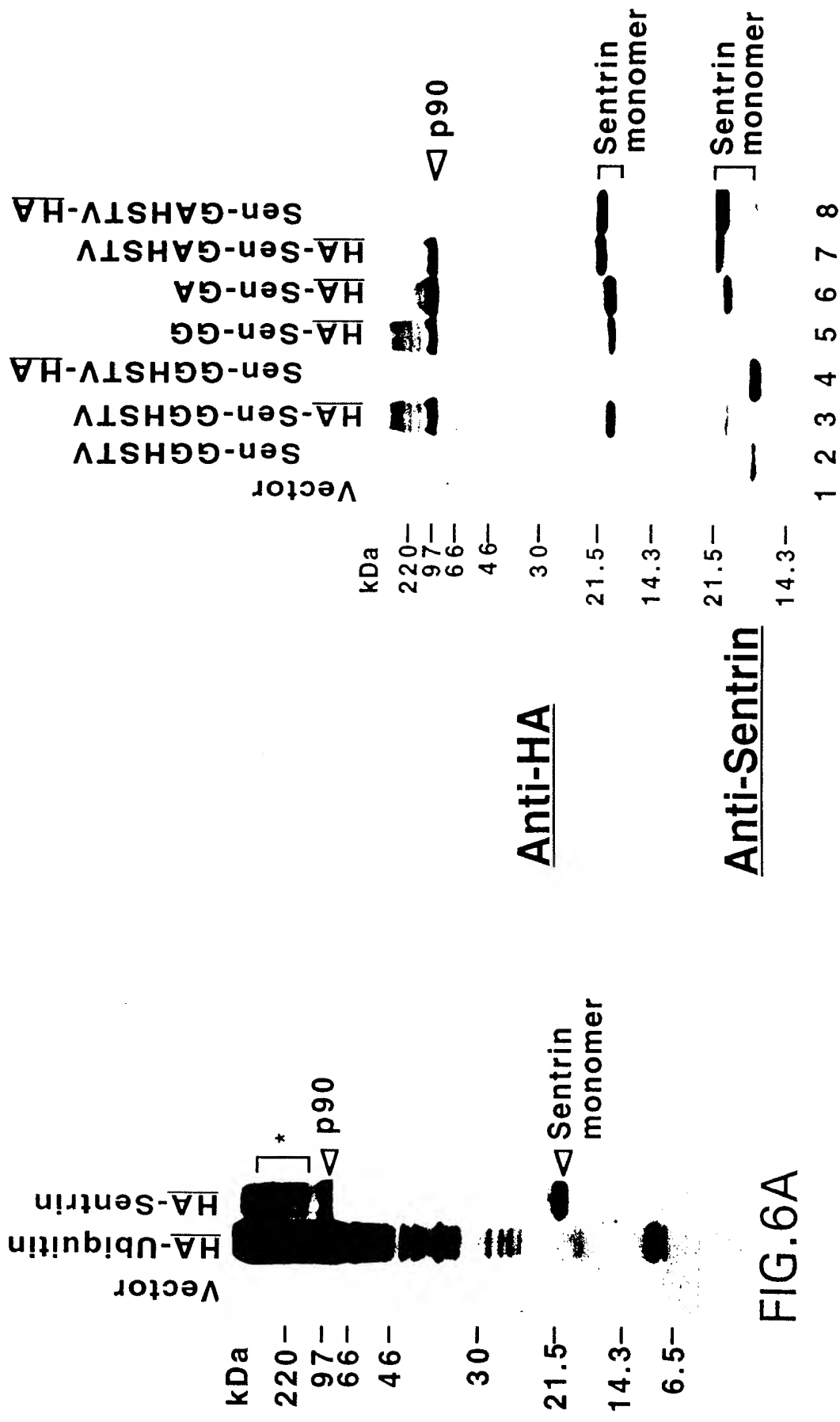


FIG.5



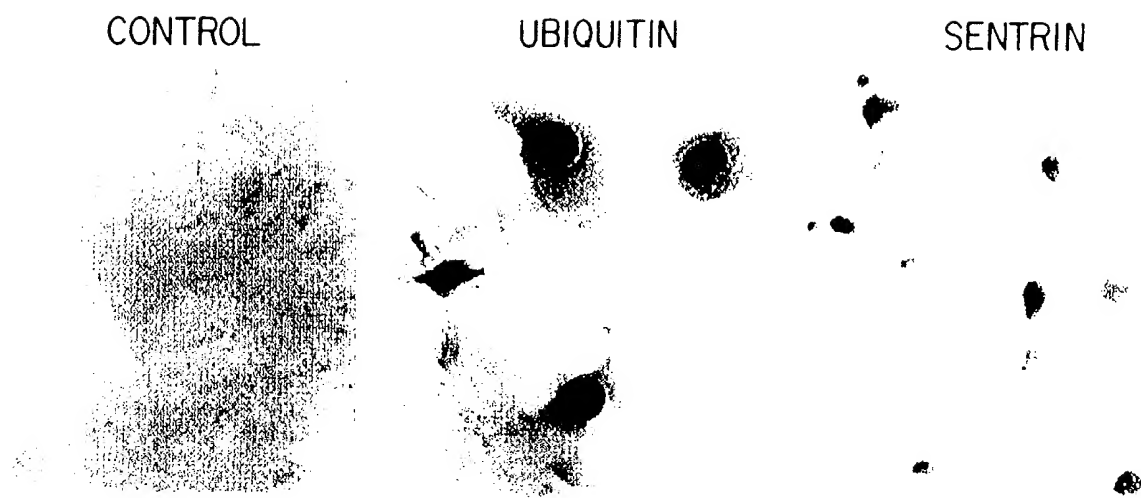


FIG.7A

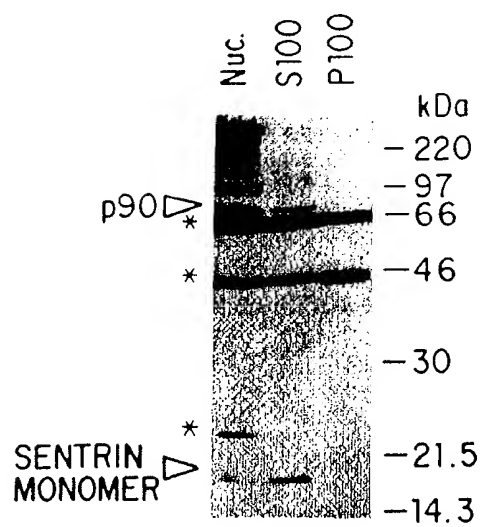


FIG.7B

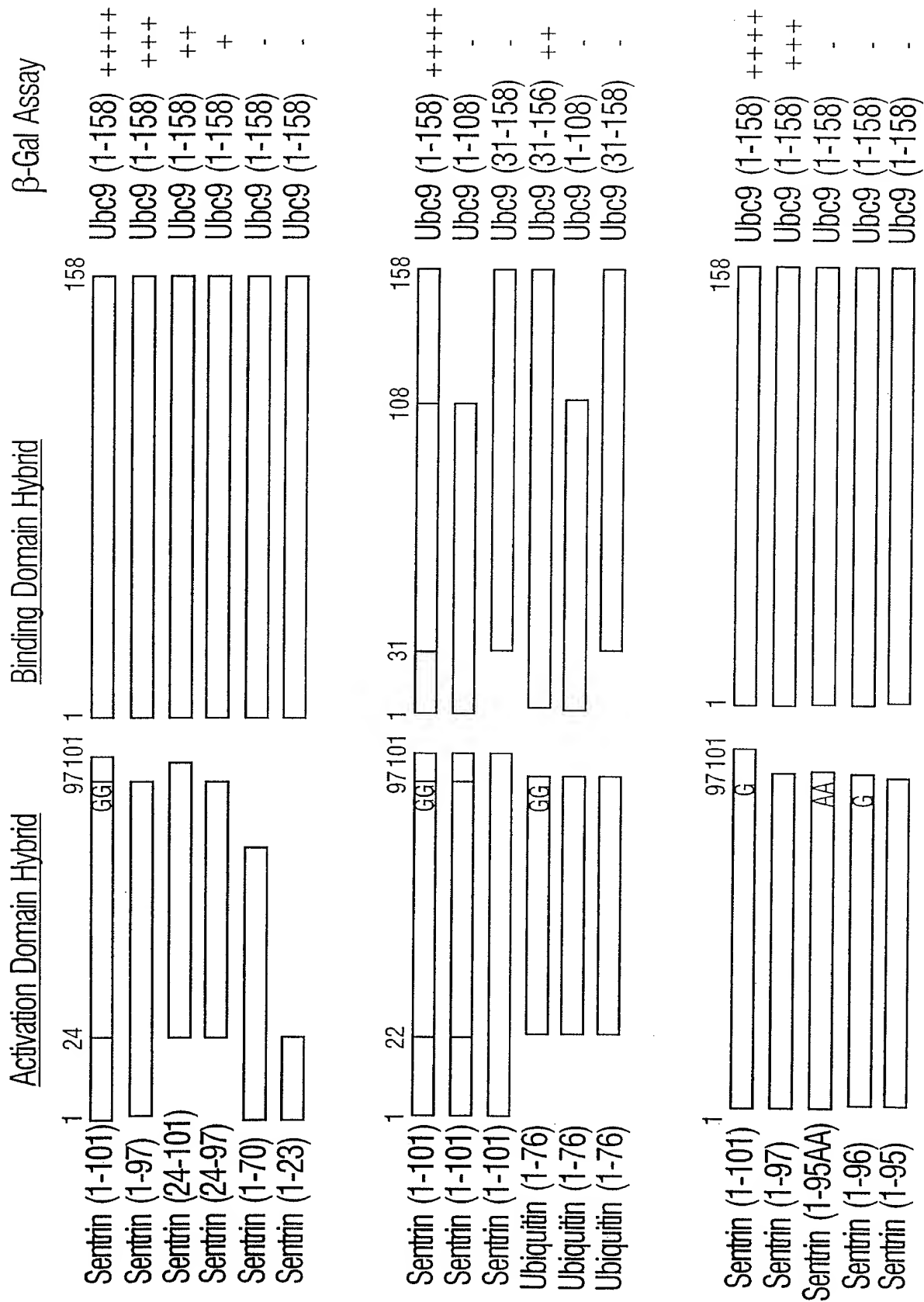


FIG. 8

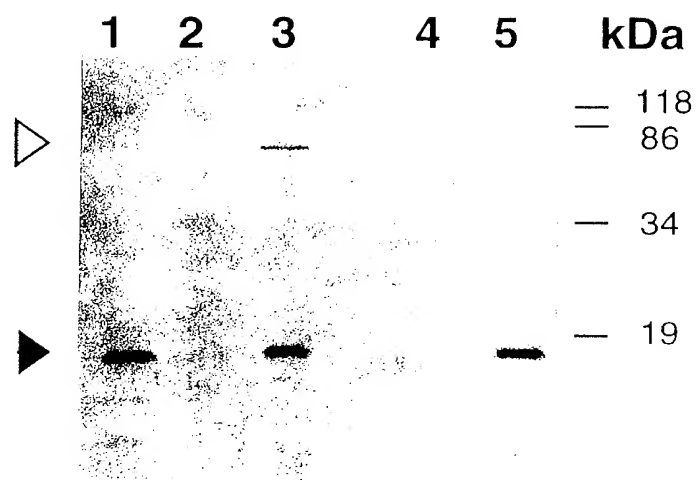


FIG.9

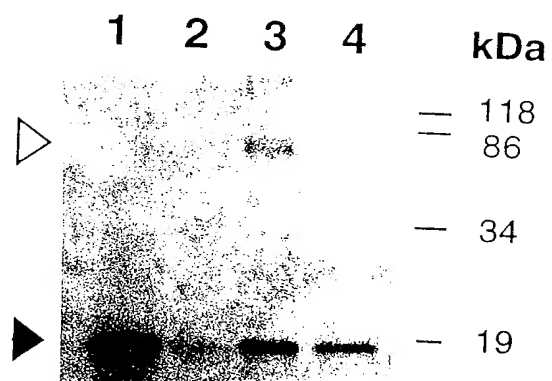


FIG.10

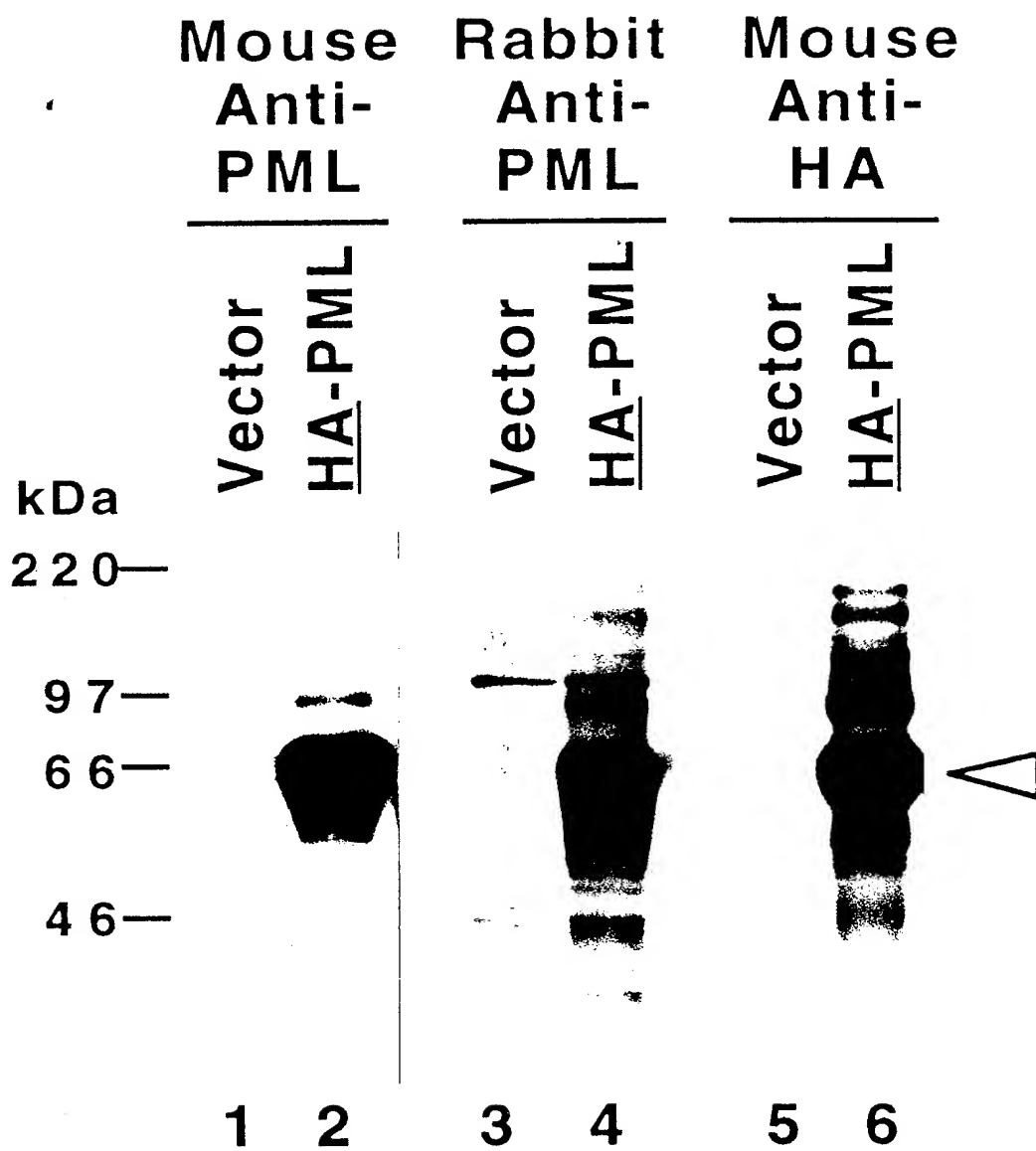


FIG.11A

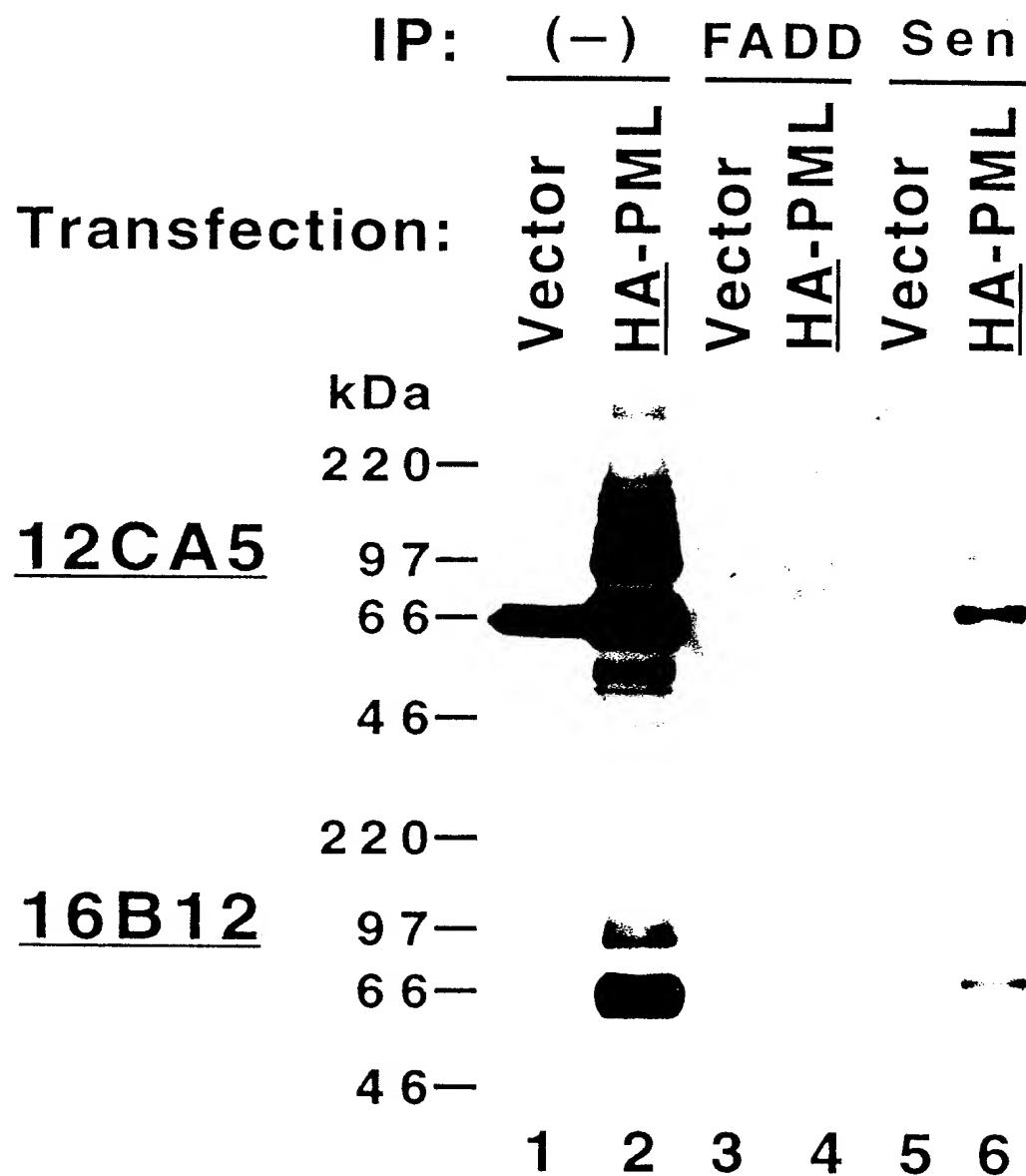


FIG.11B

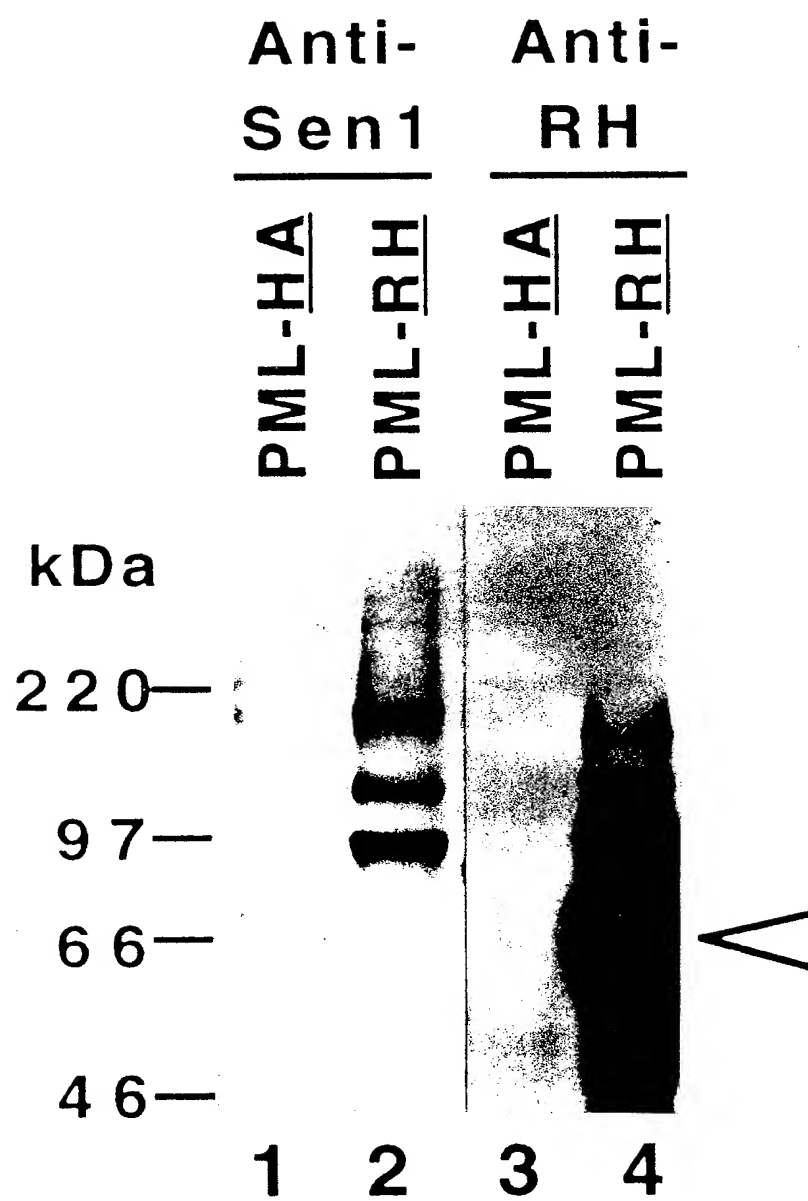


FIG.11C

Sentrin-1 (1-30)	MSDQEA KPST	EDLGDKKEGE	-YIKLKVIGQD
Sentrin-2 (1-26)	MAD-E-KPK-	E--GVKTENN	DHINLKVAGQD
Sentrin-3 (1-25)	MSE-E-KPK-	E--GVKTEN-	DHINLKVAGQD
NEDD8 (1-9)			MLIKVKTLT
Ubiquitin (1-9)			MQIFVKTLT
Sentrin-1 (31-60)	SSEIHFKVKM	TTHLKKLKE	YCQRQGVPMN
Sentrin-2 (27-56)	GSVVQFKIKR	HTPLSKLMKA	YCERQGLSMR
Sentrin-3 (26-55)	GSVVQFKIKR	HTSLSKLMKA	YCERQGLSMR
NEDD8 (10-39)	GKEIEIDIEP	TDKVERIKER	VEEKEGIPPQ
Ubiquitin (10-39)	GKTITLLEVP	SDTIENVKAK	IQDKEGIPPD
Sentrin-1 (61-90)	SLRFLFEGQR	IADNHTPKEL	GMEEDVIEV
Sentrin-2 (57-86)	QIRFRFDGQR	INETDTPAQL	EMEDEDTIDV
Sentrin-3 (56-85)	QIRFRFDGQR	INETDTPAQL	RMEDEDTIDV
NEDD8 (40-69)	QQRLIYS GKQ	MNDEKTAADY	KILGGSVLHL
Ubiquitin (40-69)	QQRLI FAKQ	LEDGRTLSDY	NIQKESTLHL
Sentrin-1 (91-101)	YQEQTGGHSTV		
Sentrin-2 (87-95)	FQQQTGGVY		
Sentrin-3 (86-103)	FQQQTGGVPES	SLAGHSF	
NEDD8 (70-81)	VLALRGGGGLR		
Ubiquitin (70-76)	VLRLRG		

FIG. 12

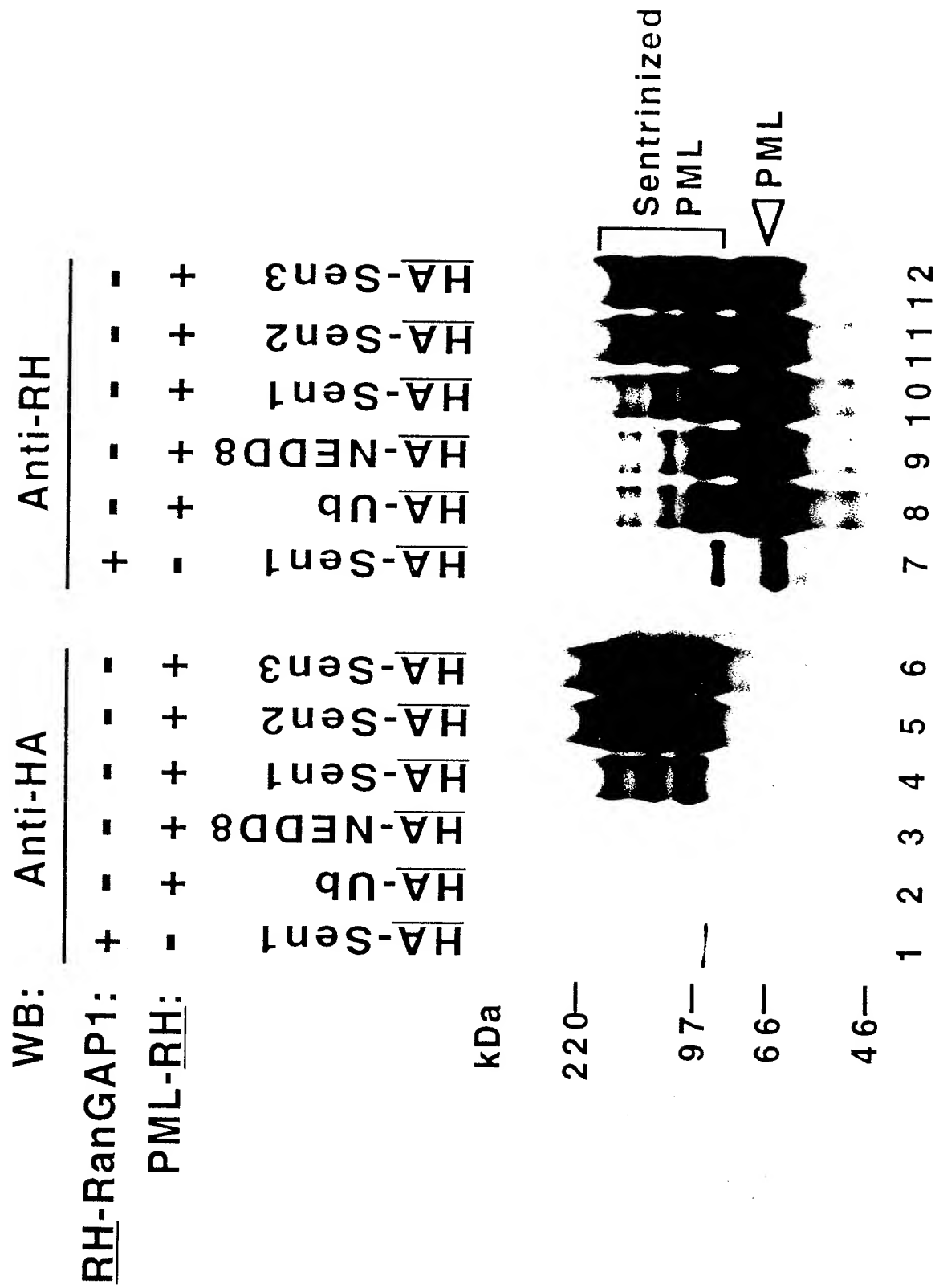


FIG.13B



FIG.13C

